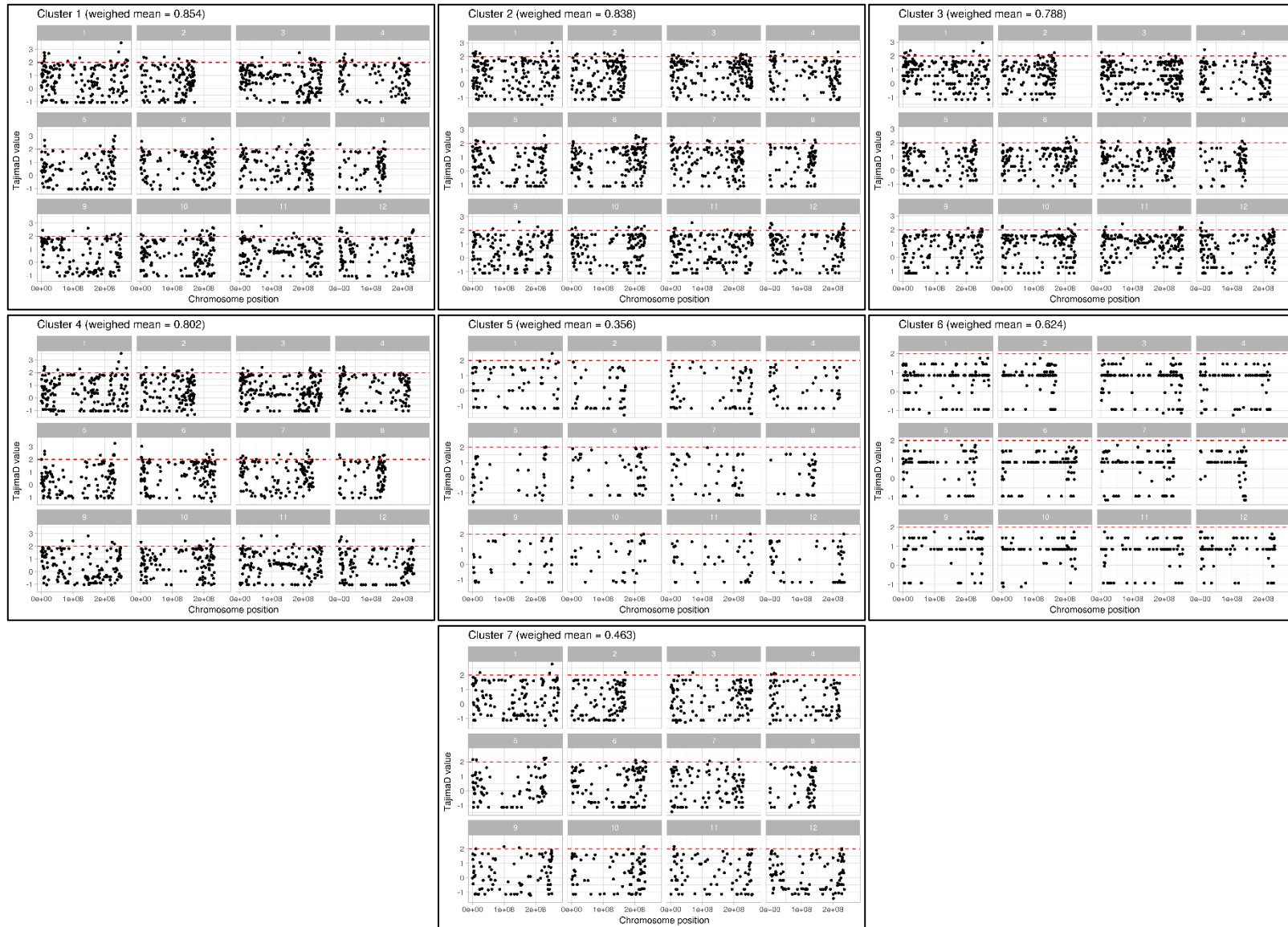


**Supplementary Data - Figure 1: A)** SNPs distribution along the 12 pepper chromosomes for raw (unfiltered) VCF with a total of 531.680 SNPs. **B)** SNPs distribution along the 12 pepper chromosomes for SNPRelate filtered VCF with a total of 4083 SNPs. **C)** Number of SNPs selected per chromosome for both raw (unfiltered) and filtered VCFs.



**Supplementary Data - Figure 2:** Tajima's D values along 12 pepper chromosomes for each DAPC-determined 7 clusters for 4083 segregating sites and correspondent weighed mean. Red dashed line indicates high probability of positive selection.